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APPLICANT : RES DEV CORP OF JAPAN;

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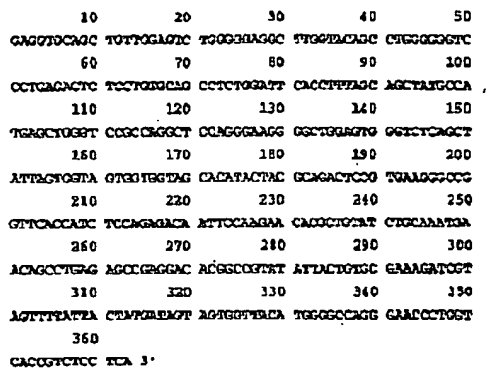
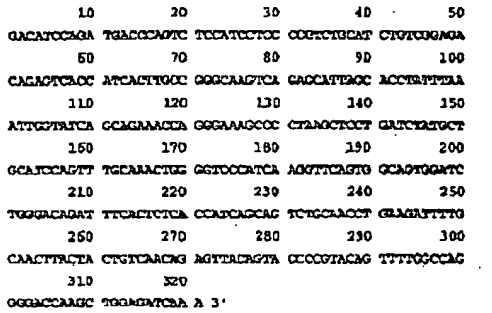
TITLE : ANTIBODY CDNA



I



II

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a new antibody cDNA coding for a variable region of a heavy chain of an antibody, having specific nucleotide sequences, and used for the gene engineering-based production of a monoclonal antibody capable of being utilized for the diagnosis of a cancer, application for an immunological therapy, the purification of a cancer specific antigen, etc.

SOLUTION: This cDNA coding for a variable region of a heavy chain of an antibody is a new cDNA coding for a human monoclonal antibody containing a nucleotide sequences expressed by formula I, and another cDNA coding for a variable region of a light chain of an antibody is also a new DNA coding for a human monoclonal antibody containing sequences expressed by formula II. These cDNA's are useful for the gene engineering-based production of a human monoclonal antibody useful for application in a medical field such as the clinical diagnosis of a cancer, an immunological therapy, the purification of a cancer specific antigen, etc. These cDNA's are obtained by extracting mRNA from a human-human hybridoma prepared by fusing a human lymphocyte immunized in vitro by using a cancer cell line, with the cancer cell line, synthesizing the cDNA and then cloning with a PCR method.